SEQUENCE LISTING

<110> PINNA, LORENZO
DONELLA-DEANA, ARIANNA
MARIN, ORIANO
MOLOGNI, LUCA
GUNBY, ROSALIND
GAMBACORTI PASSERINI, CARLO
SCAPOZZA, LEONARDO

<120> ANAPLASTIC LYMPHOMA KINASE ASSAY, REAGENTS AND COMPOSITIONS THEREOF

<130> 2503-1169

<140> 10/547,842
<141> 2006-05-15

<150> PCT/EP2004/002185
<151> 2004-03-04

<150> EP 03005186.6
<151> 2003-03-07

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<170> PatentIn Ver. 3.3

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<213> Artificial Sequence

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Ala Arg Asp Ile Tyr Arg Ala Ser Phe Phe Arg Lys Gly Gly Cys Ala
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Met Leu Pro Val Lys
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<400> 2
Ala Arg Asp Ile Tyr Arg Ala Ser Tyr Tyr Arg Lys Gly Gly Cys Ala
1 5 10 15

Met Leu Pro Val Lys
20

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SEQUENCE LISTING

<211> 21
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Ala Arg Asp Ile Phe Arg Ala Ser Tyr Phe Arg Lys Gly Gly Cys Ala
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Met Leu Pro Val Lys
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Ala Arg Asp Ile Phe Arg Ala Ser Phe Tyr Arg Lys Gly Gly Cys Ala
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Met Leu Pro Val Lys
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<210> 5
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Ala Ala Val Gly Ser Gly Met Gly Thr Gly Gln Arg Ala Gly Ser Pro
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Ala Ala Gly Ser Pro Leu Gln Pro Arg Glu Pro Leu Ser Tyr Ser Arg
35 40 45

Leu Gln Arg Lys Ser Leu Ala Val Asp Phe Val Val Pro Ser Leu Phe
50 55 60

Arg Val Tyr Ala Arg Asp Leu Leu Leu Pro Pro Ser Ser Ser Glu Leu
65 70 75 80

Lys Ala Gly Arg Pro Glu Ala Arg Gly Ser Leu Ala Leu Asp Cys Ala
85 90 95

Pro Leu Leu Arg Leu Leu Gly Pro Ala Pro Gly Val Ser Trp Thr Ala
100 105 110

Gly Ser Pro Ala Pro Ala Glu Ala Arg Thr Leu Ser Arg Val Leu Lys
115 120 125

Gly Gly Ser Val Arg Lys Leu Arg Arg Ala Lys Gln Leu Val Leu Glu
130 135 140

Leu Gly Glu Glu Ala Ile Leu Glu Gly Cys Val Gly Pro Pro Gly Glu
145 150 155 160

Ala Ala Val Gly Leu Leu Gln Phe Asn Leu Ser Glu Leu Phe Ser Trp
165 170 175

Trp Ile Arg Gln Gly Glu Gly Arg Leu Arg Ile Arg Leu Met Pro Glu
180 185 190

Lys Lys Ala Ser Glu Val Gly Arg Glu Gly Arg Leu Ser Ala Ala Ile
195 200 205

Arg Ala Ser Gln Pro Arg Leu Leu Phe Gln Ile Phe Gly Thr Gly His
210 215 220

Ser Ser Leu Glu Ser Pro Thr Asn Met Pro Ser Pro Ser Pro Asp Tyr
225 230 235 240

Phe Thr Trp Asn Leu Thr Trp Ile Met Lys Asp Ser Phe Pro Phe Leu
245 250 255

Ser His Arg Ser Arg Tyr Gly Leu Glu Cys Ser Phe Asp Phe Pro Cys
260 265 270

Glu Leu Glu Tyr Ser Pro Pro Leu His Asp Leu Arg Asn Gln Ser Trp
275 280 285

Ser Trp Arg Arg Ile Pro Ser Glu Glu Ala Ser Gln Met Asp Leu Leu
290 295 300

Asp Gly Pro Gly Ala Glu Arg Ser Lys Glu Met Pro Arg Gly Ser Phe
305 310 315 320

Leu Leu Leu Asn Thr Ser Ala Asp Ser Lys His Thr Ile Leu Ser Pro
325 330 335

Trp Met Arg Ser Ser Ser Glu His Cys Thr Leu Ala Val Ser Val His
340 345 350

Arg His Leu Gln Pro Ser Gly Arg Tyr Ile Ala Gln Leu Leu Pro His
355 360 365

Asn Glu Ala Ala Arg Glu Ile Leu Leu Met Pro Thr Pro Gly Lys His
370 375 380

Gly Trp Thr Val Leu Gln Gly Arg Ile Gly Arg Pro Asp Asn Pro Phe
385 390 395 400

Arg Val Ala Leu Glu Tyr Ile Ser Ser Gly Asn Arg Ser Leu Ser Ala
405 410 415

Val Asp Phe Phe Ala Leu Lys Asn Cys Ser Glu Gly Thr Ser Pro Gly
420 425 430

Ser Lys Met Ala Leu Gln Ser Ser Phe Thr Cys Trp Asn Gly Thr Val
435 440 445

Leu Gln Leu Gly Gln Ala Cys Asp Phe His Gln Asp Cys Ala Gln Gly
450 455 460

Glu Asp Glu Ser Gln Met Cys Arg Lys Leu Pro Val Gly Phe Tyr Cys
465 470 475 480

Asn Phe Glu Asp Gly Phe Cys Gly Trp Thr Gln Gly Thr Leu Ser Pro
485 490 495

His Thr Pro Gln Trp Gln Val Arg Thr Leu Lys Asp Ala Arg Phe Gln
500 505 510

Asp His Gln Asp His Ala Leu Leu Leu Ser Thr Thr Asp Val Pro Ala
515 520 525

Ser Glu Ser Ala Thr Val Thr Ser Ala Thr Phe Pro Ala Pro Ile Lys
530 535 540

Ser Ser Pro Cys Glu Leu Arg Met Ser Trp Leu Ile Arg Gly Val Leu
545 550 555 560

Arg Gly Asn Val Ser Leu Val Leu Val Glu Asn Lys Thr Gly Lys Glu
565 570 575

Gln Gly Arg Met Val Trp His Val Ala Ala Tyr Glu Gly Leu Ser Leu
580 585 590

Trp Gln Trp Met Val Leu Pro Leu Leu Asp Val Ser Asp Arg Phe Trp
595 600 605

Leu Gln Met Val Ala Trp Trp Gly Gln Gly Ser Arg Ala Ile Val Ala
610 615 620

Phe Asp Asn Ile Ser Ile Ser Leu Asp Cys Tyr Leu Thr Ile Ser Gly
625 630 635 640

Glu Asp Lys Ile Leu Gln Asn Thr Ala Pro Lys Ser Arg Asn Leu Phe
645 650 655

Glu Arg Asn Pro Asn Lys Glu Leu Lys Pro Gly Glu Asn Ser Pro Arg
660 665 670

Gln Thr Pro Ile Phe Asp Pro Thr Val His Trp Leu Phe Thr Thr Cys
675 680 685

Gly Ala Ser Gly Pro His Gly Pro Thr Gln Ala Gln Cys Asn Asn Ala
690 695 700

Tyr Gln Asn Ser Asn Leu Ser Val Glu Val Gly Ser Glu Gly Pro Leu
705 710 715 720

Lys Gly Ile Gln Ile Trp Lys Val Pro Ala Thr Asp Thr Tyr Ser Ile
725 730 735

Ser Gly Tyr Gly Ala Ala Gly Gly Lys Gly Gly Lys Asn Thr Met Met
740 745 750

Arg Ser His Gly Val Ser Val Leu Gly Ile Phe Asn Leu Glu Lys Asp
755 760 765

Asp Met Leu Tyr Ile Leu Val Gly Gln Gln Gly Glu Asp Ala Cys Pro
770 775 780

Ser Thr Asn Gln Leu Ile Gln Lys Val Cys Ile Gly Glu Asn Asn Val
785 790 795 800

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Ile Glu Glu Glu Ile Arg Val Asn Arg Ser Val His Glu Trp Ala Gly
                805                 810                 815

Gly Gly Gly Gly Gly Gly Gly Ala Thr Tyr Val Phe Lys Met Lys Asp
            820                 825                 830

Gly Val Pro Val Pro Leu Ile Ile Ala Ala Gly Gly Gly Gly Arg Ala
        835                 840                 845

Tyr Gly Ala Lys Thr Asp Thr Phe His Pro Glu Arg Leu Glu Asn Asn
    850                 855                 860

Ser Ser Val Leu Gly Leu Asn Gly Asn Ser Gly Ala Ala Gly Gly Gly
865                 870                 875                 880

Gly Gly Trp Asn Asp Asn Thr Ser Leu Leu Trp Ala Gly Lys Ser Leu
                885                 890                 895

Gln Glu Gly Ala Thr Gly Gly His Ser Cys Pro Gln Ala Met Lys Lys
            900                 905                 910

Trp Gly Trp Glu Thr Arg Gly Gly Phe Gly Gly Gly Gly Gly Gly Cys
        915                 920                 925

Ser Ser Gly Gly Gly Gly Gly Gly Tyr Ile Gly Gly Asn Ala Ala Ser
    930                 935                 940

Asn Asn Asp Pro Glu Met Asp Gly Glu Asp Gly Val Ser Phe Ile Ser
945                 950                 955                 960

Pro Leu Gly Ile Leu Tyr Thr Pro Ala Leu Lys Val Met Glu Gly His
                965                 970                 975

Gly Glu Val Asn Ile Lys His Tyr Leu Asn Cys Ser His Cys Glu Val
            980                 985                 990

Asp Glu Cys His Met Asp Pro Glu Ser His Lys Val Ile Cys Phe Cys
        995                1000                1005

Asp His Gly Thr Val Leu Ala Glu Asp Gly Val Ser Cys Ile Val Ser
   1010                1015                1020

Pro Thr Pro Glu Pro His Leu Pro Leu Ser Leu Ile Leu Ser Val Val
1025                1030                1035                1040

Thr Ser Ala Leu Val Ala Ala Leu Val Leu Ala Phe Ser Gly Ile Met
                1045                1050                1055

Ile Val Tyr Arg Arg Lys His Gln Glu Leu Gln Ala Met Gln Met Glu
            1060                1065                1070

Leu Gln Ser Pro Glu Tyr Lys Leu Ser Lys Leu Arg Thr Ser Thr Ile
        1075                1080                1085

Met Thr Asp Tyr Asn Pro Asn Tyr Cys Phe Ala Gly Lys Thr Ser Ser
   1090                1095                1100

Ile Ser Asp Leu Lys Glu Val Pro Arg Lys Asn Ile Thr Leu Ile Arg
1105                1110                1115                1120

Gly Leu Gly His Gly Ala Phe Gly Glu Val Tyr Glu Gly Gln Val Ser
                1125                1130                1135
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Gly Met Pro Asn Asp Pro Ser Pro Leu Gln Val Ala Val Lys Thr Leu
1140 1145 1150

Pro Glu Val Cys Ser Glu Gln Asp Glu Leu Asp Phe Leu Met Glu Ala
1155 1160 1165

Leu Ile Ile Ser Lys Phe Asn His Gln Asn Ile Val Arg Cys Ile Gly
1170 1175 1180

Val Ser Leu Gln Ser Leu Pro Arg Phe Ile Leu Leu Glu Leu Met Ala
1185 1190 1195 1200

Gly Gly Asp Leu Lys Ser Phe Leu Arg Glu Thr Arg Pro Arg Pro Ser
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Gln Pro Ser Ser Leu Ala Met Leu Asp Leu Leu His Val Ala Arg Asp
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Ile Ala Cys Gly Cys Gln Tyr Leu Glu Glu Asn His Phe Ile His Arg
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Asp Ile Ala Ala Arg Asn Cys Leu Leu Thr Cys Pro Gly Pro Gly Arg
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Val Ala Lys Ile Gly Asp Phe Gly Met Ala Arg Asp Ile Tyr Arg Ala
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Ser Tyr Tyr Arg Lys Gly Gly Cys Ala Met Leu Pro Val Lys Trp Met
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Pro Pro Glu Ala Phe Met Glu Gly Ile Phe Thr Ser Lys Thr Asp Thr
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Trp Ser Phe Gly Val Leu Leu Trp Glu Ile Phe Ser Leu Gly Tyr Met
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Pro Tyr Pro Ser Lys Ser Asn Gln Glu Val Leu Glu Phe Val Thr Ser
1330 1335 1340

Gly Gly Arg Met Asp Pro Pro Lys Asn Cys Pro Gly Pro Val Tyr Arg
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Ile Met Thr Gln Cys Trp Gln His Gln Pro Glu Asp Arg Pro Asn Phe
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Ala Ile Ile Leu Glu Arg Ile Glu Tyr Cys Thr Gln Asp Pro Asp Val
1380 1385 1390

Ile Asn Thr Ala Leu Pro Ile Glu Tyr Gly Pro Leu Val Glu Glu Glu
1395 1400 1405

Glu Lys Val Pro Val Arg Pro Lys Asp Pro Glu Gly Val Pro Pro Leu
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Leu Val Ser Gln Gln Ala Lys Arg Glu Glu Glu Arg Ser Pro Ala Ala
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Pro Pro Pro Leu Pro Thr Thr Ser Ser Gly Lys Ala Ala Lys Lys Pro
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Thr Ala Ala Glu Val Ser Val Arg Val Pro Arg Gly Pro Ala Val Glu
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Gly Gly His Val Asn Met Ala Phe Ser Gln Ser Asn Pro Pro Ser Glu
1475 1480 1485

Leu His Lys Val His Gly Ser Arg Asn Lys Pro Thr Ser Leu Trp Asn
1490 1495 1500

Pro Thr Tyr Gly Ser Trp Phe Thr Glu Lys Pro Thr Lys Lys Asn Asn
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Pro Ile Ala Lys Lys Glu Pro His Asp Arg Gly Asn Leu Gly Leu Glu
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Gly Ser Cys Thr Val Pro Pro Asn Val Ala Thr Gly Arg Leu Pro Gly
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Ala Ser Leu Leu Leu Glu Pro Ser Ser Leu Thr Ala Asn Met Lys Glu
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Val Pro Leu Phe Arg Leu Arg His Phe Pro Cys Gly Asn Val Asn Tyr
1570 1575 1580

Gly Tyr Gln Gln Gln Gly Leu Pro Leu Glu Ala Ala Thr Ala Pro Gly
1585 1590 1595 1600

Ala Gly His Tyr Glu Asp Thr Ile Leu Lys Ser Lys Asn Ser Met Asn
1605 1610 1615

Gln Pro Gly Pro
1620